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CNAS L0446

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# Test Report

Verified code: 604488

Report No.: E20240725192701-18

Customer: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Voice Mate H1

Sample Model: AT-R01E

Receive Sample Date: Aug.05,2024

Test Date: Aug.09,2024 ~ Aug.26,2024

Reference Document: AS/NZS 2772.2:2016/AMDT 1:2018

Test Result: Pass

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GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-09-13

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20240725192701-18	Original Issue	2024-09-05

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## 1 GENERAL DESCRIPTION OF EUT

### 1.1 APPLICANT INFORMATION

Name: Lumi United Technology Co., Ltd  
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Address: Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 1.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd  
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Address: Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 1.3 BASIC DESCRIPTION OF EUT

Product Name: Voice Mate H1

Product Model: AT-R01E

Trade Name: Aqara

Additional Model: AT-R01D

Model difference descriptions: They have the same software and hardware constructions including circuit diagram, PCB layout and electrical parts, except Model name and packaging are different, as they would distribute in different regions to satisfy subdividing market demands.

Power Supply: 3.0V DC supplied by button cell

Battery Specification: CR2450 3.0V DC

Frequency Band: 2402MHz - 2480MHz for BLE,  
2405MHz - 2480MHz for Thread

Antenna Type: Internal antenna

Antenna Gain: 1.0dBi (Max.)

Temperature Range: 0 °C ~ 50 °C

Hardware Version: V1.0

Software Version: V1.0.0.1

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E20240725192701-0001, E20240725192701-0003

Note 1: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

Note 2:

The EUT have two colors, the one is white, the other is black, they have the same software and hardware constructions including circuit diagram, PCB layout and electrical parts, except color is different. All tests were performed on the AT-R01E model.

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## 2 LABORATORY AND ACCREDITATIONS

### 2.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

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### 2.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

China	CNAS(L0446)
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### 3 TECHNICAL REQUIREMENTS SPECIFICATION

#### 3.1 RF EXPOSURE EVALUATION

If the average power emitted by the apparatus operating in the frequency range 3 kHz to 300 GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

#### 3.2 EVALUATION RESULTS

Mode	Antennna	EIRP Power (dBm)	Frequency Band(MHz)	EIRP Power ( mW )	Limit of EIRP Power ( mW)	Result
BLE-1M	Ant 1	9.50	2402-2480	8.91	20	Pass
BLE-2M	Ant 1	9.50	2402-2480	8.91	20	Pass
Thread	Ant 1	9.08	2405-2480	8.09	20	Pass

Note:

- 1) The Maximum EIRP Level please refer to RF report (Report NO.: E20240725192701-15& E20240725192701-16). The BLE and Thread can't simultaneously transmit.
- 2) According to this requirement the SAR-measurement has not to be considered when the sending level is < 20 mW.

### 4 APPENDIX A:PHOTOGRAPH OF THE EUT

Please refer to the attached document E20240725192701-EUT photo.

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